9 September 19:3

MENCRABOUN RE: Deputy Director/Intelligence

THEOLOGIA THEOLOGIA

Acting Assistant Director, Chill Chief, Economic Research, Otto

AMADICE:

Oder, Insertrial Minister, CRE

SUMFCT

Compat on Barray of the Seviet Machine Tool Endustry

25X1A9a

25X1A9a

- L. We found survey to be an interesting compilation of Soviet sources in this field. We have used these, and many other, open sources in our own analysis of the Soviet machine tool industry.
- 2. We disagree with some of the author's interpretations of Soviet data. We feel that the reastine on quality of Soviet median tools are underly spitical, occapionally contradictory and in post cases inaccurate, we believe that the quality of machine tools carrently being produced in the USSR is adequate for the purposes for much they are to be used. These machines are usually limiting in frills, epo-appeal and finish but are capable of producing accurate products without excessive doubtime. The author's assumption than Soviet statistics on machine tool production include up to 25% pervice-shop' sizes (page 21) is considered immourate. The US production figures for 1952 and 1995 quoted by the author contain a greater number of this type of equipment than the official Soviet figures for these years. For detailed consents are presented below.
- 3. Import figures for the years listed in Table II are not available from efficial Soviet statistics but are considered probably accurate. The import figure of 21,765 units for ISAL-bk in Table IV is too los. We estimate it to be more than 10,000 units.
- h. The compilation of intelestical data on production is absurate for the years reported on by the Soviete in their handbooks. The estimated production of Sh,000 units for 19th-bk in Table IV is considered too low. Production for these years in estimated to be at least 100,000 units.
- 5. The author has not proved his assertion on page 11 that Soviet statistical data is misrepresented. The so-called 367,571 units unaccounted for in the author's calculations in Table IV are almost all explained away logically on page 12 by his own statement that they

STRUCT: Company on Carvey of the Soviet Machine Tool Industry
by 25X1A9a

were probably mostly "war-reparations", and that the belance were imports from Blow countries. We estimate "war-reparations" to have been a minimum of 250,000 units and predestion and imports for 19kl-lik to be greater than the author has estimated. We, therefore, accept the reported Soviet inventory figures as probably tries.

- 6. The author reports IN production in 1952 as 230,000 waits (page 13) and in 1955 as 206,000 unite (page 20). Although accurate US statistics on US production of anchine tools are not available, we consider the figures quoted in this report as too Migh. The MITTA (Mational Machine Teel Builders Association) reports production by its members to be 96,800 units for 1952 and 50,500 units for 1955. Various sources estimate that the members of this organisation postuce 70 to 85% of all US machine tool graduction. The author's statistics on US production originate from the Bureau of Commus. Our analysis of these figure: leads to the conclusion that a large portion of the production reported by Compus is not comparable to the Soviet types produced in the corresponding years, 1952 and 1955. For example, the Sureau of Omesas figure includes 37,560 and to walned at \$1,512,007 or less than \$50 mech. They are beach grinders, Segre Rosbuck type and are not included by the Seviets at BiffBA as machine tools, but are suitable for use in home workshops. service-shops and garages. This cate pry, the author states (page 20) is excluded from the 106,000 water he reports as produced by US in 1955.
- 7. The inclusion of photos of Soviet sachines displayed at the Brussels Pair in part refutes the author's statement (page 21) that correct Soviet models approach US equipment produced up to and during World War II. For example:
 - a. Medal 6012P, page 15 (Seen by I/PE analyst at the Pair. Correct model rember in 6437R). A magnetic tape-controlled three-dimensional milling machine conting through a translater-tood digital computer. Gaments This 1tem is not extended by anything US has to date.
 - b. Sodel 6427, page 17. A two dimensional profile stilling machine controlled by a puncted term. Comment: As madern at 1958.
 - e. Model 2625%, page 17. A horizontal beging mill with table and head countinating functions and speed and feed mettings controlled by punched cards. Communits Agein modern concept in US.

Approved For Release 2000/08/23: CIA-RDP62S00231A000100080013-2

SUBJECT: Comment on Amovey of the Seviet Machine Tool Industry 25X1A9a

- d. Model 5033, page 18. A semi-entonatic gener grinding machine interportating a principle originating in Sadas and inco. Comment: Selatively new even in US, being produced here only since Karea.
- 8. The examples given above indicate that the best Soviet models are on a per with, or are very close to, 35 first quality machines. All Soviet production, of course, does not consist of the next modern types, and many can be considered emolescent by (E standards.
- 9. The author exaterris (page 22) that total productivity of the current annual production of machine tools in US expects by 50% that of current Soviet mount production. As estimate that current some al Soviet production of mashine tool water is greater than that of US, are the total predective capacity of the machine tools must be considered at least equal to that of US estmal outpart. The Sordets have probably surpassed the US in the use of cerado tools, which for exceed the tungsten carbide cutting speeds. The author mentions is advances through the use of tungsten particle tooling, (page 21) but the USS: has also advanced in this field, even if not to the same degree.

25X1A9a

thist, broducers' Equipment branch, /i

Distributions

Original and 1 - Addressee

2 - AD/A

1 - Chief. E

1 - D/I/HR

2 - I/H:

ORIGI/PE/ mate / 3647 25X1A9a

(9 September 1958)